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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the

application:

1-20. (Canceled).

21. (Currently Amended) A method for locating a terminal in a local wireless

telecommunications network performed at a locating system that provides a location

estimation of the terminal depending on a set of configuration data and on a set of

measuring data, wherein the network comprises a plurality of base stations access

points providing services on a plurality of coverage areas and the locating system is

located remotely from the terminal and the plurality of base stations access points,

comprising:

defining a set of configuration data comprising a plurality of configuration data

base entries, each configuration data base entry having a weight function related to a

configuration of the local wireless telecommunications network;

acquiring a set of measuring data from the terminal or the network comprising a

plurality of measuring data types, wherein each measuring data type depends on the

type of terminal and the set of measuring data indicates whether the terminal belongs to

a subset of said plurality of coverage areas;

associating each of a plurality of locating procedures with a different combination

of at least one of the plurality of configuration data base entries and at least one of the

plurality of measuring data types, wherein each of the plurality of locating procedures is

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configured to estimate a position of the terminal based on the associated combination and corresponds to an accuracy value of the estimated position, each of said plurality of locating procedures having associated a respective weight index in terms of difficulty in

providing said configuration data; and

selectively actuating at least one of the plurality of locating procedures obtained from said associating step to provide the location estimation by taking into account said

weight index and said accuracy value.

22. (Currently Amended) The method according to claim 21, wherein said selectively actuating comprises selecting one of the plurality of locating procedures depending on a set of available measuring data and on a prefixed accuracy threshold value of the location estimation, in such a way that said one of the plurality of locating procedures has an accuracy value that is not less than the prefixed threshold value, minimising the and minimizes a weight function used for computing said weight index efthe at least one of the plurality of configuration data base entries associated with said

one of the plurality of locating procedures.

23. (Previously Presented) The method according to claim 21, wherein said selectively actuating comprises selecting one of the plurality of locating procedures depending on a set of available measuring data and on a prefixed set of available configuration data, in such a way that said one of the plurality of locating procedures

has the best possible accuracy value of the location estimation.

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24. (Previously Presented) The method according to claim 21, wherein said selectively actuating comprises selecting one of the plurality of locating procedures depending on a set of available measuring data and on a prefixed set of available configuration data, in such a way that said one of the plurality of locating procedures

has the best response speed to the location estimation request.

25. (Previously Presented) The method according to claim 21, wherein said

selectively actuating comprises a step of selecting one of the plurality of locating

procedures depending on a set of available measuring data and on a prefixed set of

available configuration data, in such a way that said one of the plurality of locating

procedures has a pricing value in compliance with a value predefined by a user.

(Currently Amended) The method according to claim 21, wherein said set

of configuration data comprises at least one configuration data base entry among the

plurality of configuration data base entries related to:

locating coordinates of the base stations access points;

radio-electric characteristics of the network;

structural and/or electromagnetic characteristics of the environment in which the

network is deployed; and

radio-electric or performance parameters of signals transmitted from the base-

stations access points, in predetermined space positions belonging to the coverage

area of the network.

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 (Currently Amended) The method according to claim 21, wherein said set of measuring data acquired by the terminal or the network comprises at least one

measuring data type among the plurality of measuring data types related to:

identification of the base station access point by which the terminal is served;

identification of the base stations access points received by the terminal;

at least one radio-electric or performance parameter of signals transmitted from

the base station access points by which the terminal is served; and

at least one radio-electric or performance parameter of signals transmitted by the

base stations access points received by the terminal.

28. (Canceled).

29. (Previously Presented) The method according to claim 21, further

comprising transferring, to the terminal of the network, processing programs for

performing at least one subset of said plurality of locating procedures and at least one

subset of said plurality of configuration data base entries used by the transferred

locating procedures, whereby the location estimation is performed by the terminal and

information about estimated position and estimation accuracy are transmitted from the

terminal to the locating system upon every service request.

30. (Canceled).

31. (Previously Presented) The method according to claim 29, wherein the

selection of the at least one subset of said plurality of locating procedures that can be

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performed by the terminal occurs depending on measures that the terminal is able to perform and/or the required locating accuracy and/or the applied pricing when using the terminal.

- (Previously Presented) The method according to claim 21, further 32. comprising creating and maintaining a data base for storing a time succession of estimated positions of the terminal.
- 33. (Currently Amended) The method according to claim 21, wherein at least one of the plurality of locating procedures associated with a combination of at least one of the plurality of configuration data base entries and at least one of the plurality of measuring data types estimates the position of the terminal corresponding to the barycenter coordinates of the coverage area of said base station access point and an uncertainty value, the uncertainty value being defined by the distances from said barycenter to all points of the coverage area, wherein the at least one of the plurality of configuration data base entries relates to locating coordinates of the base stations access points, locating coordinates of the base-stations access points and radio electric characteristics of the network, or locating coordinates of the base stations access points and radio electric characteristics of the network and the structural/electromagnetic characteristics in which the network is deployed, and the at least one of the plurality of measuring data types relates to the identification of the base station access point by which the terminal is being served.

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- 34. (Currently Amended) The method according to claim 33, wherein the at least one of the plurality of locating procedures estimates the position of the terminal corresponding to the barycenter coordinates of a coverage sub-area of the base-station access point by which the terminal is served comprising the points nearer to the base-stations access points received by the terminal with respect to unreceived base-stations access points and an uncertainty value, the uncertainty value being defined depending on the distances from said barycenter to all points of the sub-area, and the at least one of the plurality of measuring data types further relates to the identifications of the base-stations access points received by the terminal.
- 35. (Currently Amended) The method according to claim 33, wherein the at least one of the plurality of locating procedures estimates the position of the terminal corresponding to the barycenter coordinates of a coverage sub-area of said base-station access point defined depending on the distance from said base-station access point to the terminal estimated depending on said parameter and an uncertainty value, the uncertainty value being defined depending on the distances from said barycenter to all points of the sub-area, and the at least one of the plurality of measuring data types further relates to at least one radioelectric or performance parameter of the signal transmitted from said base-station access point and depending on the distance from said base-station access point to the terminal.
- 36. (Currently Amended) The method according to claim 34, wherein the at least one of the plurality of locating procedures estimates the position of the terminal corresponding to the barycenter coordinates of a coverage sub-area of the base-station

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access point by which the terminal is served, defined depending on the distances from said base stations access points to the terminal and estimated depending on said parameters and an uncertainty value, the uncertainty value being defined depending on the distances from said barycenter to all points of the sub-area, and the at least one of the plurality of measuring data types further relates to at least one radio-electric or performance parameter transmitted from said server base station access point and depending on the distance from said base-station access point to the terminal and at least one radio-electric or performance parameter of the signal transmitted from received base-stations access points and depending on the distance from said base-stations access points to the terminal.

37. (Currently Amended) A processing system for locating a terminal in a local wireless telecommunications network by providing a location estimation of the terminal, wherein the network comprises a plurality of base-stations access points that provide services on a plurality of coverage areas and the processing system is located remotely from the terminal and the plurality of base-stations access points; comprising:

storage modules for storing a plurality of configuration data parameters related to a configuration of the local wireless telecommunications network and a plurality of measuring data types acquired from the terminal or the network and indicating whether the terminal belongs to a subset of said coverage areas, said plurality of measuring data types depending on the type of terminal: and

a locating processing module that associates each of a plurality of locating procedures with a different combination of at least one of the plurality of configuration

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data parameters and at least one of the plurality of measuring data types, and that performs one of the plurality of locating procedures related to a selected combination to provide the location estimation, each of the plurality of locating procedures having associated a respective weight index in terms of difficulty in providing said configuration data parameters, wherein each of the plurality of locating procedures is configured to estimate a position of the terminal based on the associated combination and corresponds to an accuracy value of the estimated position, wherein each of the plurality of locating procedures takes into account said weight index and said accuracy values.

- (Previously Presented) A local wireless telecommunications network,
 comprising a processing system for locating a network terminal according to claim 37.
 - 39. (Canceled).
- 40. (Previously Presented) A non-transitory computer-readable medium storing instructions for execution by a processing system, the instructions comprising one or more code modules that when executed by the processing system perform a method for locating a terminal in a local wireless telecommunications network according to claim 21.